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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/540,300	07/14/2005	Hans Peterson	05432/100M400-US1	1055
7278 DARBY & DA	7590 10/12/2007 RBY P.C.		EXAMINER	
P.O. BOX 770			CHANDRAKUMAR, NIZAL S	
Church Street Station New York, NY 10008-0770			ART UNIT	PAPER NUMBER
•			1625	
			MAIL DATE	DELIVERY MODE
			10/12/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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	Application No.	Applicant(s)			
200	10/540,300	PETERSON ET AL.			
Office Action Summary	Examiner	Art Unit			
	Nizal S. Chandrakumar	1625			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. hely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on	_·				
2a) ☐ This action is FINAL . 2b) ☒ This	This action is FINAL . 2b)⊠ This action is non-final.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
4)⊠ Claim(s) <u>1-27 and 29-43</u> is/are pending in the application.					
4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1-27 and 29-43</u> is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/or	r election requirement.				
Application Papers					
9) The specification is objected to by the Examine	r.				
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.			
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s) 1) Notice of References Cited (PTO-892)	4) Interview Summary				
Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	Paper No(s)/Mail Do 5) Notice of Informal P 6) Other:				

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DETAILED ACTION

This application filed 07/14/2005 is a 371 of PCT/DK03/00907 12/18/2003 which claims benefit of 60/436,117 12/23/2002. Claims 1-27 and 29-43 are before the Examiner.

Claim Rejections - 35 USC § 112

- 1. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 2. Claims 1-27 and 29-43 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. It is unclear if the diol in solution and the diol in the precipitate are in protonated or unprotonated form in the various steps, because the claims use these terms interchangeably. Likewise, the specification also refers to the precipitates (i.e. solids) without specifying whether they are obtained in the protonated or unprotonated form.

Furthermore, it is suggested the claims include the name of the diols by structure or chemical name, because as per 27 USPQ 2d 1608, claims must stand alone to define the invention and incorporation into claims by reference to the specification is not permitted.

Claim Rejections - 35 USC § 112

- 3. The following is a quotation of the first paragraph of 35 U.S.C. 112:
 - The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.
- 4. Claims 1-27 and 29-43 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention. The invention is drawn to processes of enriching one

enantiomer over the other starting from slightly enriched mixture of enantiomers by means of precipitation. This rather uncommon discovery is not discussed in the specification. Though the specification contains several working examples, there is insufficient information provided in the working example to enable one skilled in the art to make and use the invention. The working examples provide information with respect to amount of the starting materials without providing the amount of the enriched isomer or amount of the racemate formed. The statement "recovery of material was virtually quantitative, with the expected partitioning of weight between the respective sample" is found in the specification. This, statement per se, is not sufficient guidance or direction for one skilled in the art attempting to make or use the invention. For instance, in the working example wherein acids were used for the precipitation, extraction with organic solvents results in the extraction of the protonated material. Though extraction of protonated tertiary amines into organic solvents is not uncommon, it is confusing when no mention is made with respect to the nature of the material that is not extracted into solution. The working examples are silent with respect to the nature of the precipitate, is the diol precipitate protonated? The data provided in the tables indicate that repetition of the process is necessary to obtain pure form of one isomer; thus this method needs extensive use of HPLC methods. However, the working examples fail to provide essential information such as column specifications, eluent, flow rate etc. Thus, an ordinary practitioner would undergo undue experimentation in order to develop an effective practical method for enhancing the ee of the required diol isomer without guidance from the prior art and/or the specification of the instant case.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nizal S. Chandrakumar whose telephone number is 571-272-6202. The examiner can normally be reached on 8.30 am - 5 pm Monday- Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Janet Andres can be reached at 571-272-0867 or Primary Examiner D. Margaret Seaman can be reached at 571-272-0694. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Nizal S. Chandrakumar

D. MARGÄRET SEAMAN PRIMARY EXAMINER